AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A process for carrying out impregnation and/or for preparing a coating which gives release and is leaktight employed at the *engine block/cylinder* head interface of engines and applied to sheet gaskets, comprising:
 - 1 employing a silicone composition comprising:
 - A 100 parts by weight of at least one polyorganosiloxane (POS) crosslinkable by the cationic and/or radical route and via crosslinking functional groups (CFGs), these CFGs being identical to or different from one another and being selected from the group consisting of at least one functional unit of heterocyclic nature having one or more electron-donating atoms and/or from those which are, at least one ethylenically unsaturated functional and unit that is substituted by at least one electron-donating atom which enhances the basicity of the π system, and mixtures thereof;
 - B from 0.01 to 10 parts by weight of at least one initiator salt (PI) formed by which is a borate of an onium of an element from groups 15 to 17 of the Periodic Classification or of an organometallic complex of an element from groups 4 to 10 of the Periodic Classification, a cationic entity of said borate being selected from the group consisting

(1) onium salts cations of formula (I):

$$((R^1)_n-A-(R^2)_m)^{\pm}$$
 (I)

in which formula:

A represents an element from groups 15 to 17;

 R^1 represents a C_6 - C_{20} carbocyclic or heterocyclic aryl radical; R^2 represents R^1 or a linear or branched C_1 - C_{30} alkyl or alkenyl radical; said R^1 and R^2 radicals optionally being substituted by a C_1 - C_{25} alkoxy, C_1 - C_{25} alkyl, nitro, chloro, bromo, cyano, carboxy, ester or mercapto group,

n is an integer ranging from 1 to v + 1, v being the valency of the element A,

m is an integer ranging from 0 to v - 1, with n + m = v + 1

(2) the oxoisothiochromanium salts having the formula:

where the R^6 radical represents a linear or branched C_{i} - C_{20} alkyl radical;

- (3) sulfonium salts where the cationic entity comprises at least one of:
 - 3.1. a polysulfonium species of formula III.1

in which:

the Arl symbols, which can be identical to or different from one another, each represent a monovalent phenyl or naphthyl radical optionally substituted with one or more radicals selected from the group consisting of: a linear or branched C_I-C_{I2} alkyl radical, a linear or branched C_I-C_{I2} alkoxy radical, a halogen atom, an -OH group, a -COOH group, a -COO-alkyl ester group, where the alkyl part is a linear or branched $C_{1}\text{-}C_{12}$ residue, and a group of formula $-Y^4$ Ar^2 , where the Y⁴ and Ar² symbols have the meanings given immediately below, the Ar² symbols, which can be identical to or different from one another or Ar¹ each represent a monovalent phenyl or naphthyl radical optionally substituted with one or more radicals selected from the group consisting of: a linear or branched C₁-C₁₂ alkyl radical, a linear or branched C₁-C₁₂ alkoxy radical, a halogen atom, an -OH group, a -COOH group and a -COO-alkyl ester group, where the alkyl part is a linear or branched C₁-C₁₂ residue, the Ar³ symbols, which can be identical to or different from one

the Ar^3 symbols, which can be identical to or different from one another, each represent a divalent phenylene or naphthylene radical optionally substituted with one or more radicals chosen from: a linear or branched C_1 - C_{12} alkyl radical, a linear or branched C_1 - C_{12} alkoxy

radical, a halogen atom, an -OH group, a -COOH group or a -COO-alkyl ester group, where the alkyl part is a linear or branched C_1 - C_{12} residue,

t is an integer equal to 0 or 1,

with the proviso that:

when t = 0, the Y symbol is then a Y^1 monovalent radical representing the group of formula Y^1 :

where the Arl and Ar2 symbols have the meanings given above,

when t = 1:

on the one hand, the Y symbol is then a divalent radical having the following meanings Y^2 to Y^4 :

Y²: a group of formula:

where the Ar² symbol has the meanings given above,

Y³: a single valency bond,

Y⁴: a divalent residue selected from the group consisting of:

a linear or branched C_1 - C_{12} alkylene residue and a residue of formula -Si (CH₃)₂O-,

on the other hand, solely in the case where the Y symbol represents Y³ or Y⁴, the Ar^I and Ar² (terminal) radicals have, in addition to the meanings given above, are optionally connected to one another via the Y', residue comprising Y'¹, a single valency bond, or in Y'², a divalent residue selected from the group of residues recited in the definition of Y⁴, which is inserted between the carbon atoms, facing each other, situated on each aromatic ring in the ortho position with respect to the carbon atom directly bonded to the S⁺ cation; and

3.2. a monosulfonium species having a single S⁺ cationic center per mole of cation and comprising, in the majority of cases, in species of formula:

$$Ar^{1} - S - Ar^{1}$$

$$Ar^{2}$$
(III.2)

in which Ar^I and Ar² have the meanings given above with respect to the formula (III.1), including the possibility of connecting directly between them only one of the Ar^I

radicals to Ar² according to the way indicated above with respect to the definition of the additional condition in force when t=l in the formula (II) involving the Y' residue;

(4) organometallic salts of formula (IV):

$$(L^1L^2L^3M)^{q+} \qquad (IV)$$

in which formula:

M represents a metal from group 4 to 10,

L¹ represents 1 ligand bonded to the metal M via π electrons, which ligand is selected from the group consisting of η^3 -alkyl, η^5 -cyclopendadienyl, η^7 -cyclo-heptratrienyl ligands and η^6 -aromatic compounds selected from the group consisting of optionally substituted η^6 -benzene ligands and compounds having from 2 to 4 condensed rings, each ring being capable of contributing to the valency layer of the metal M via 3 to 8 π electrons,

 L^2 represents a ligand bonded to the metal M via π electrons, which ligand is selected from the group consisting of η^7 - cycloheptatrienyl ligands and η^6 - aromatic compounds selected from the group consisting of optionally substitute η^6 -benzene ligands and compounds having from 2 to 4 condensed rings, each ring being capable of contributing to the valency layer of the metal M via 6 or 7 π electrons, L^3 represents from 0 to 3 identical or different ligands bonded to the metal M via σ electrons, which ligand(s) is (are) CO or $N0_2^+$; the total electronic charge q of the complex to which L^1 , L^2 and L^3 and the ionic charge of the metal M contribute being positive and equal to 1 or 2; an *anionic entity* borate having the formula:

[BX_aR_b]

in which formula:

a and b are integers ranging from 0 to 3 for a and from 1 to 4 for b, with a+b=4,

the X symbols represent:

a halogen atom with a = 0 to 3,

an OH functional group with a = 0 to 2,

the R symbols are identical or different and represent:

a phenyl radical substituted by at least one electron-withdrawing group and/or by at least 2 halogen atoms, this being when the cationic entity is an onium of an element from groups 15 to 17,

a phenyl radical substituted by at least one electron-withdrawing element or group, this being when the cationic entity-is an organometallic complex of an element from groups 4 to 10, an aryl radical comprising at least two aromatic nuclei, which is optionally substituted by at least one electron-withdrawing element or group, whatever the cationic entity;

- 1 to 50 parts by weight of at least one reactive diluent selected from the group consisting of a nonorganosilicon, an organosilicon and an organic compound comprising, in its structure, at least one CFG as defined above and optionally at least one secondary functional group (SFG) other than a CFG but capable of reacting chemically with a CFG;
- D 0 to 10 parts by weight of at least one pigment;

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- E 0 to 100 parts by weight of a filler of inorganic nature;
- F 0 to 10 parts by weight of at least one photosensitizer;
- G 0 to 10⁻² part by weight of a stabilizer comprising at least one stabilizing amine agent,
- H 0 to 5 parts by weight of an adhesion promoter;
- 2 applying this composition to a support ,and
- 3 crosslinking the applied composition by photochemical and/or thermal activation and/or under an electron beam.
- 2. (Previously Presented) The process as claimed in claim 1, wherein the support is a metal cylinder head gasket.
- 3. (Previously Presented) The process as claimed in claim 2, wherein the support is a metal multilayer cylinder head gasket and a coating is formed on at least one of the faces of at least one of the layers comprising the metal multilayer cylinder head gasket.
- 4. (Currently Amended) The process as claimed in claim 1, wherein the functional units included in the CFG groups are selected from the group consisting of the following units:

an ethylenically unsaturated and activated functional group,

epoxide,

oxethane oxetane,

and their mixtures,

and wherein the functional units included in the optional SFG groups are selected from the group consisting of the following units:

hydroxyl,

alkoxy,

carboxyl,

and their mixtures.

5. (Previously Presented) The process as claimed in claim 1, wherein the polyorganosiloxane is an epoxysilicone and/or a vinyl ether silicone which is:

either linear or substantially linear and comprised of units of formula (I), terminated by units of formula (II),

or cyclic and comprised of units of formula (II):

in which formulae:

the R³ symbols are alike or different and represent:

either a hydroxyl radical,

or a linear or branched C_1 - C_{18} alkyl radical which is optionally substituted by one or more halogens and/or a hydroxyl radical, or a C_2 - C_8 alkenyl radical,

or an optionally substituted C₅-C₈ cycloalkyl radical,

or an aryl or aralkyl radical which is optionally substituted by halogens and/or alkoxyls,

the Z symbols are alike or different and represent:

either the R³ radical,

or a CFG group corresponding to an epoxide or vinyl ether residue connected to the silicon via a divalent radical comprising from 2 to 20 carbon atoms and optionally comprising a heteroatom,

at least one of the Z symbols corresponding to a CFG group.

6. (Previously Presented) The process as claimed in claim 1, wherein the polyorganosiloxane is an epoxysilicone having a formula selected from the group consisting of (A.1), (A.2) and (A.3):

$$CH_{3} \longrightarrow Si \longrightarrow O \longrightarrow Si \longrightarrow CH_{3}$$

$$CH_{3} \longrightarrow Si \longrightarrow CH_{3}$$

$$CH_{3} \longrightarrow Si \longrightarrow CH_{3}$$

$$CH_{3} \longrightarrow CH_{3}$$

$$CH_{$$

wherein X = CH₃; phenyl; C₅-C₈ cycloalkyl; C₁-C₁₈ alkyl; C₂-C₈ alkenyl; -OH; H; -CH₂-CH₂-CH₂-CH₂-CH₂-CF₃ or - (CH₂)_n-CF₃, n = 1 to 20;

 a_1 , a_2 , b_1 and b_2 being defined as follows in these formulae (A.1) and (A.2)

$$1 \le a_1, a_2$$
 $1 \le b_1, b_2$

 a_2 and b_2 being = 0 in the formula (A. 2) to give the epoxidized disiloxane (A.3).

7. (Currently Amended) The process as claimed in claim 1, wherein the reactive diluent(s) C is (are) selected from the group consisting of:

the nonorganosilicon organic compounds (C_I) possessing CFG + optionally SFG reactive groups having the following formulae:

 $\frac{\text{and/or from and}}{\text{optionally SFG reactive groups having the following formulae:}}$

$$(C_2)$$
 Si(OR 7_3

with $R^7 = C_1 - C_{10}$ alkyl,

$$(C_2') \qquad O \qquad \begin{matrix} H_3C & R^8 \\ \\ \\ Si & Si \\ \\ \\ H_3C & R^8 \end{matrix}$$

with R⁸ independently representing a C₁-C₁₀ alkyl.

- 8. (Currently Amended) The process as claimed in claim 1, wherein the diluent (C) exhibits a boiling point B.p. <u>B.P.</u> ≥ 100°C at standard atmospheric pressure and a viscosity at 25°C η ≤ 100 mPa.s.
- 9. (Previously Presented) The process as claimed in claim 1, wherein, prior to stage 1, the support to be coated is covered using an adhesion primer comprising at least one compound selected from the group consisting of:

alkoxylated silanes carrying at least one ethylenic unsaturation and/or at least one epoxide functional group,

(meth)acrylates,

metal chelates and/or alkoxides,

crosslinkable silicone compositions, and compositions which are precursors of silicone elastomers.

10. (Previously Presented) The process as claimed in claim 1, wherein the heterocyclic aryl radical in formula (I) comprises nitrogen or sulfur as a heteroelement.

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11. (Previously Presented) The process as claimed in claim 1, wherein the support is a cylinder head sheet gasket or a cylinder head/engine block interface.